### **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/586, 374
Source: 1FWR
Date Processed by STIC: 08/01/2006

## ENTERED

### CRF Errors Edited by the STIC Systems Branch

Serial	Number: 10/586, 374	CRF Edit Date: 08/01/2006 Edited by: DA
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers of	edited were:
	Inserted or corrected a nucleic number at the en NO's edited:	nd of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
	Inserted mandatory headings/numeric identifier	rs, specifically:
	Moved responses to same line as heading/numer	ric identifier, specifically:
	Other:	·

Revised 09/09/2003



**IFWP** 

RAW SEQUENCE LISTING DATE: 08/01/2006
PATENT APPLICATION: US/10/586,374 TIME: 15:52:40

Input Set : A:\pto.da.txt

4 <110> APPLICANT: Robert G.K. Donald

```
Paul Liberator
             Xiaotian Zhong
     6
     8 <120> TITLE OF INVENTION: Coccidian parasite casein kinase I as a
             chemotherapeutic target for antiprotozoal agents
     12 <130> FILE REFERENCE: 21554P
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/586,374
C--> 14 <141> CURRENT FILING DATE: 2006-07-14
     14 <150> PRIOR APPLICATION NUMBER: 60/537,094
     15 <151> PRIOR FILING DATE: 2004-01-16
    17 <150> PRIOR APPLICATION NUMBER: PCT/US2005/000955
     18 <151> PRIOR FILING DATE: 2005-01-12
     20 <160> NUMBER OF SEQ ID NOS: 45
     22 <170> SOFTWARE: FastSEO for Windows Version 4.0
     24 <210> SEO ID NO: 1
     25 <211> LENGTH: 2182
     26 <212> TYPE: DNA
     27 <213> ORGANISM: Eimeria tenella
     29 <220> FEATURE:
     30 <221> NAME/KEY: CDS
     31 <222> LOCATION: (715)...(1722)
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     36 tccctgaggc agcgtgcatg tatggtccgg cagccagctt ggtgtcgcag ccgtacttct 180
     37 tggaagcgag agagactgtg ggagagcgca aatcactcca gccgcttcca ggggagtctg 240
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     39 tcttctgtgg ttgctgagtt ctggctgcgt tcaagggggt tcacctcttc cccttctggc 360
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     41 acgcggtgca ccttttacgt aagagcgtcg atagcatcgg tcatctacag cagcgtgctg 480
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     47
     48 gac gtc cgt gtg ggg ggt aag tat cgt ttg ggg agg aag att ggg agc
     49 Asp Val Arg Val Gly Gly Lys Tyr Arg Leu Gly Arg Lys Ile Gly Ser
     51 gga tcc ttc ggc gac atc tac ctt ggt acg aac atc tca aca gga gat
     52 Gly Ser Phe Gly Asp Ile Tyr Leu Gly Thr Asn Ile Ser Thr Gly Asp
     53
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                                     25
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RAW SEQUENCE LISTING DATE: 08/01/2006
PATENT APPLICATION: US/10/586,374 TIME: 15:52:40

Input Set : A:\pto.da.txt

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			act	att	tac	taa		aaa	ato	aaa	aaa		tac	220	at t	ato		957
					Tyr													,,,,
		PIO	1111	пец	TAT	70	ıyı	GIY	TIE	Giu	75	not.	TYL	Apii		· 80·		
	63									~~~		a+ a	++~					1005
					ttg													1005
		тте	GIU	ьeu	Leu	GIY	Pro	ser	ьeu		Asp	ьец	Pne	ser		Cys	ASII	
	66				85					90					95			1052
		_	_		tct	-	-		_	-	-		-	_		-		1053
		Arg	Lys		Ser	Leu	Lys	Thr		Leu	Met	ьeu	Ala	_	Gin	Met	Leu	
	69			100					105					110				
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		Asn	_	Ile	Glu	Phe	Val		Ser	Arg	His	Phe		His	Arg	Asp	Ile	
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	74	Lys	Pro	Asp	Asn	Phe	Leu	Ile	Gly	Arg	Gly	Lys	Lys	Met	Ser	Ile	Val-	
٠.	75 °	1.3.0					135					140		~ 4*."	. Ar		145	
					gac													1197
	77	Phe	Ala	Ile	Asp	Phe	Gly	Leu	Ala	Lys	Lys	Tyr	Arg	Asp	Pro	Arg	Thr	
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	79	cag	tcc	cat	att	cct	tat	cga	gaa	999	aag	aac	ctg	aca	ggt	acc	gcg	1245
	80	Gln	Ser	His	Ile	Pro	Tyr	Arg	Glu	Gly	Lys	Asn	Leu	Thr	Gly	Thr	Ala	
	81				165					170					175			
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					Met													
	93	•	-			230	-	•			235					240	-	
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	99		3	260	014	1101	9		265	- 1 -	501	-1-		270	5			
		220	ı dət		. ++	tto	. cat	. gac		tac	r cac	r tat	gar		: ata	a tto	gat	1581
																	Asp	2501
	102	-	275	•	110		5	280	_	- 7 -		y-	285				p	
					· ctc	ı cat	act			gac	ו כמי	י מאר			aga	ו רמי	tcg	1629
					_		_		_		_		-		_	-	g Ser	2027
	- 0 - 2						, 1110	. 010		, 010		, 010	~ -3+ Z	,		,	,	

RAW SEQUENCE LISTING DATE: 08/01/2006
PATENT APPLICATION: US/10/586,374 TIME: 15:52:40

Input Set : A:\pto.da.txt

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															Asp		
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115	gtg	ctate	etg a	aggct	gtg	gc ti	tcag	gatgt	ggt	tage	cagt	tac	catg	gtc .	actt	gccctc	1842
116	gcta	aggad	cag d	cctt	cgcag	gg ga	aaat	gtcad	agt	tage	ctgc	atta	atgt	ggt	gtgag	gaactg	1902
117	7 ctagegeatt cetgtagttg ettttaegaa geaggataeg eagegtgeat eaegeggtgg														1962		
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119	ttgagagtgt cagaatcgat agtctcaggg catgcaggcg aaatggaggc tgcgccagta														2082		
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				NCE:		an a + 15									·.**		
129	Met	Asp	Val	Arg	Val	Gly	Gly	Lys	Tyr	Arg	Leu	Gly	Arg	Lys	Ile	Gly	
130	1				5					10					15		
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142		•	•	100	~1	D1	**- 7	***	105	*	*** -	D1	<b>-</b> 1 -	110	7	7	
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144	-1.	•	115	3	3	Dl	<b>T</b>	120	<b>71</b>	7	<b>~1</b>	T	125	34-4	0	T1 -	
	шe	-	Pro	Asp	Asn	Pne		ше	GIY	Arg	GIY	_	ьys	Met	Ser	ire	
146	17.7	130	7.7.	<b>T</b> 1.	<b>7</b>	Dha	135	T 0	77.	T	T	140	7	7 0 00	Pro	71 ***	
		Pne		ire	_		_	ьеи	Ala	_	155	-	Arg	Asp		160	
	145	a1						7~~	C1				Tou	Th x			
	1111	GIII	ser	пів	165	PIO	TYL	Arg	Giu	170	пур	ASII	пец	1111	Gly 175	1111	
150	717	71 ~~~	Тис	71-		17-1	Λαn	Thr	Uic		C111	Tlo	Clu	Gln	Ser	Λra	
151	AId	Arg	тут	180	SET	vaı	UDII	TILL	185	⊐cu	GIA	116	GIU	190	PCI	AT 9	
	7/ ~~	λ c.~	7 c.~		رواي	7 <b>.</b> 1 ⇒	Len	Clar		v-1	T.e.11	Met	ጥ፣ታው		Asn	Δra	
154	wī	Asp	195	ьeu	GIU	AId	ьeu	200	TYL	vaı	ш <del>с</del> и	I-I-C	205	FIIC	VOII	arg	
	G117	Ser		Dro	Фхъ	Gl n	Gl v		Lare	בו∡	Thr	Thr		Lare	Asp	Lve	
156	GTA	210	ьeu	FIO	тър	GIII	215	⊒eu	пys	viq	1111	220	пys	шyв	rap	פעם	
	Тът		Lare	Tle	Met	G111		Lare	Met	Ser	Thr		Tle	G111	Val	T.e.11	
10/	- A -	vah	ny 3	116	1.100	GIU	-ya	-73	1-1-	JEI	****	110	116	<u> </u>	· uı	<b>_</b>	

- - -

RAW SEQUENCE LISTING DATE: 08/01/2006
PATENT APPLICATION: US/10/586,374 TIME: 15:52:40

Input Set : A:\pto.da.txt

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  186 ccctttctat gcgttgccac ccgtctgcaa gtatcgcgtc tttcgtctca tcagtgattt 180
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  189 tgcaacttgt cgcccgtcgt tcttcacttc ttctctccca tcctctcgtg actcttcctc 360
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  195 cacgtacact actocacttg ggtgcccacg cgcggcttct gggagacaga gacggtcctc 720
  196 gttttccgtg tcagaacttt gtcgaggaaa cgctgctgct ggcagcgggg attgtgaccc 780
  197 ccctcggcga acgggcgaag ccgccctgtc gcgcgtcgcg actcagctga ggcgacaggc 840
  198 ggtcggcggc gtgacctctc tttctttttg cattcggccc tgattgcagc acgaagg atg 900
  199
                                                                      Met.
  200
  201 gag gtc agg gtc gga ggc aag tac cga ctt ggt cgg aag atc ggc agc
                                                                         948
  202 Glu Val Arg Val Gly Gly Lys Tyr Arg Leu Gly Arg Lys Ile Gly Ser
  204 ggg tca ttc ggt gat att tat atc ggt gca aac att ttg acg ggg gat
                                                                         996
  205 Gly Ser Phe Gly Asp Ile Tyr Ile Gly Ala Asn Ile Leu Thr Gly Asp
                                   25
  207 gag gtg gcg atc aag ttg gag tct atc aag tcg aag cac ccg cag ctg
                                                                         1044
  208 Glu Val Ala Ile Lys Leu Glu Ser Ile Lys Ser Lys His Pro Gln Leu
  209
  210 ctc tat gag tcg aag ctg tac aaa ctg ctg gct ggc ggc att ggg att
  211 Leu Tyr Glu Ser Lys Leu Tyr Lys Leu Leu Ala Gly Gly Ile Gly Ile
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RAW SEQUENCE LISTING DATE: 08/01/2006
PATENT APPLICATION: US/10/586,374 TIME: 15:52:40

Input Set : A:\pto.da.txt

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	215					70					75					80			
	216	atc	gac	ctt	ctc	ggc	cct	tct	ctg	gag	gac	ctt	tt¢	agt	atc	tgc	aat	1188	
	217	Ile	Asp	Leu	Leu	Gly	Pro	Ser	Leu	Glu	Asp	Leu	Phe	Ser	Ile	Cys	Asn		
	218		_		85					90		•			95				
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	221	Arg	Lys	Leu	Ser	Leu	Lys	Thr	Val	Leu	Met	Leu	Ala	Asp	Gln	Met	Leu		
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	246					230					235					240			
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										Tyr						Leu	Phe		
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		_	Thr	Phe	Ile	Asn	Thr	Glu	Lys	Asp	Arg	Ala	Ser	Arg	Arg	Ser			
		290					295					300					305		
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VERIFICATION SUMMARY

DATE: 08/01/2006

PATENT APPLICATION: US/10/586,374

TIME: 15:52:41

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312006\J586374.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:242 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:3

L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1572 L:1061 M:283 W: Missing Blank Line separator, <220> field identifier

# Raw Sequence Listing before editing (for reference only)



**IFWP** 

RAW SEQUENCE LISTING

DATE: 07/26/2006

PATENT APPLICATION: US/10/586,374

TIME: 15:08:44

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07262006\J586374.raw

4 <110 > APPLICANT: Robert G.K. Donald

5 Paul Liberator

Xiaotian Zhong

8 <120> TITLE OF INVENTION: Coccidian parasite casein kinase I as a

9 chemotherapeutic target for antiprotozoal agents

12 <130> FILE REFERENCE: 21554P

C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/586,374

C--> 14 <141> CURRENT FILING DATE: 2006-07-14

14 <150> PRIOR APPLICATION NUMBER: 60/537,094

15 <151> PRIOR FIGURG DATE: 2004-01-16

17 <150> PRIOR APPLICATION NUMBER: PCT/US2005/000955

18 <151> PRIOR FILING DATE: 2005-01-12

20 <160> NUMBER OF SEQ ID NOS: 45

22 <170> SOFTWARE: FastSEQ for Windows Version 4.0

**Does Not Comply** Corrected Diskette Needed

#### ERRORED SEQUENCES

1057 <210> SEQ ID NO: 45

1058 <211> LENGTH: 29

1059 <212> TYPE: DNA

1060 <213> ORGANISM: Artificial Sequence

W--> 1061 <220> FEATURE:

1062 <223> OTHER INFORMATION: oligonucleotide

1064 <400> SEQUENCE: 45

1065 gttrccgcag agcttcaaga gcatctgtt

E--> 1070 /- 1 -

29

VERIFICATION SUMMARY

DATE: 07/26/2006

PATENT APPLICATION: US/10/586,374

TIME: 15:08:45

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07262006\J586374.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:242 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:3

L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1572 L:1061 M:283 W: Missing Blank Line separator, <220> field identifier L:1070 M:254 E: No. of Bases conflict, this line has no nucleotides.